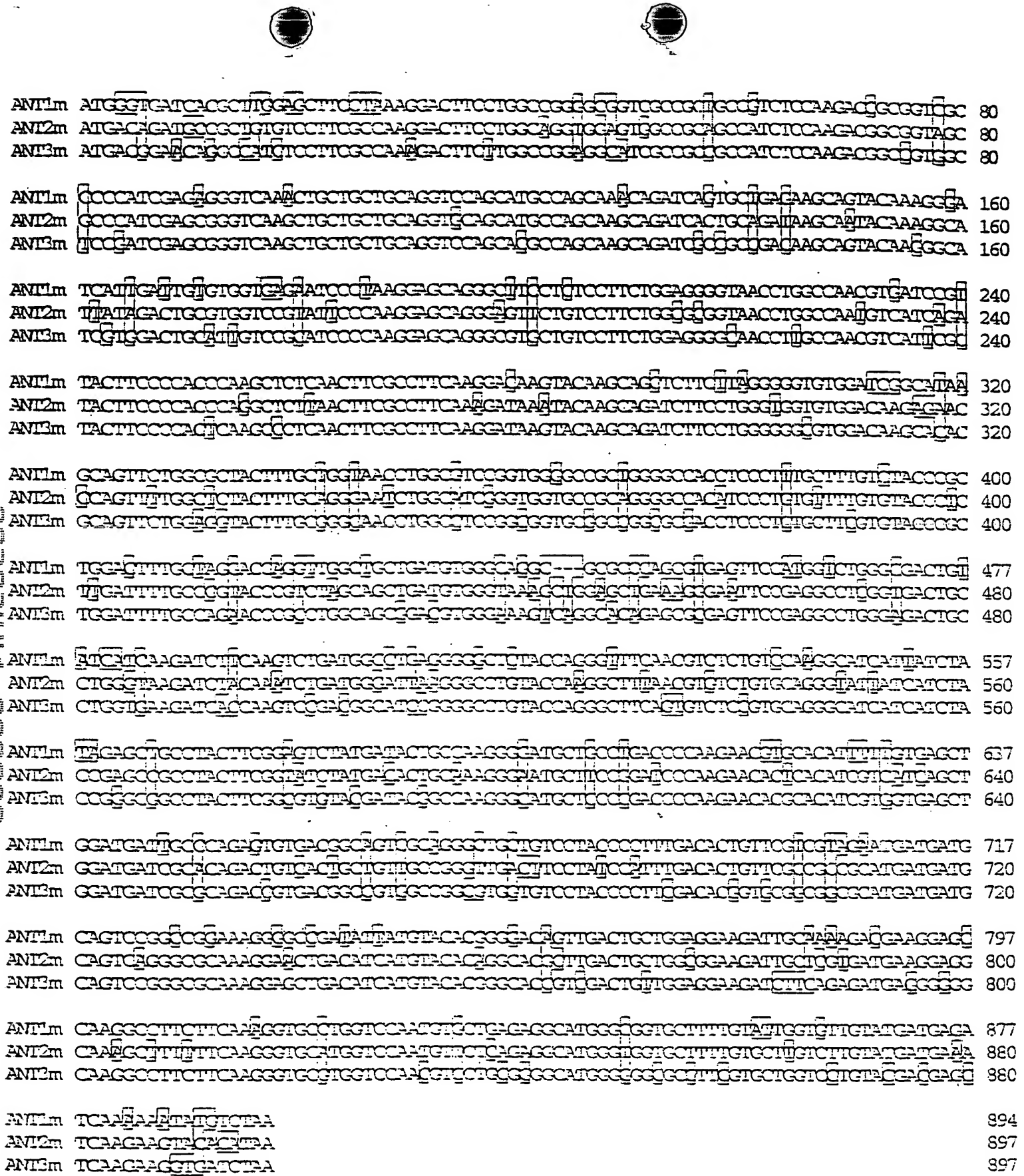

Figure 1


hANT1p MGDHAWSFLKDFLAGAVAAAMSKTAVAPIERVKLLLQVQHASKQISAEKQ 50
hANT2p MTDAAMSFAKDFLAGGVAAAISKTAVAPIERVKLLLQVQHASKQITADKQ 50
hANT3p MTEQAISFAKDFLAGGIAAAISKTAVAPIERVKLLLQVQHASKQIAADKQ 50
hANT1p YKGIIDCVVRIPKEQGFLSFWRGNLANVIRYFPTQALNFAFKDKYKQLFL 100
hANT2p YKGIIDCVVRIPKEQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100
hANT3p YKGIVDCIVRIPKEQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFL 100
hANT1p GGVDRHKQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGRR-A 149
hANT2p GGVDKHTQFWLYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKAGA 150
hANT3p GGVDKHTQFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGI 150
hANT1p QREFHGLGDCIIKIFKSDGLRGLYQGFNVSVQGIIIYRAAYFGVYDTAKG 199
hANT2p EREFRGLGDCLGKIMKSDGIKGLYQGFNVSVQGIIIYRAAYFGIYDTAKG 200
hANT3p EREFRGLGDCLMKIIKSDGIRGLYQGFSVSVQGIIIYRAAYFGVYDTAKG 200
hANT1p MLPDPKNMHIFVSWMIAQSVTAVAGLISYPFDIVRRRMMMQSGRKGADIM 249
hANT2p MLPDPKNTHIVISWMIAQTVTAVAGLISYPFDIVRRRMMMQSGRKGTDIM 250
hANT3p MLPDPKNTHIVVSWMIAQTVTAVAGVMSYPFDIVRRRMMMQSGRKGADIM 250
hANT1p YTGIVDCWRKIAKDEGAKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYV. 298
hANT2p YTGIIDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYT. 299
hANT3p YTGIVDCWRKIFRDEGGKAFFKGAWSNVLRGMGGAFVLVLYDELKKVI. 299

Figure 2

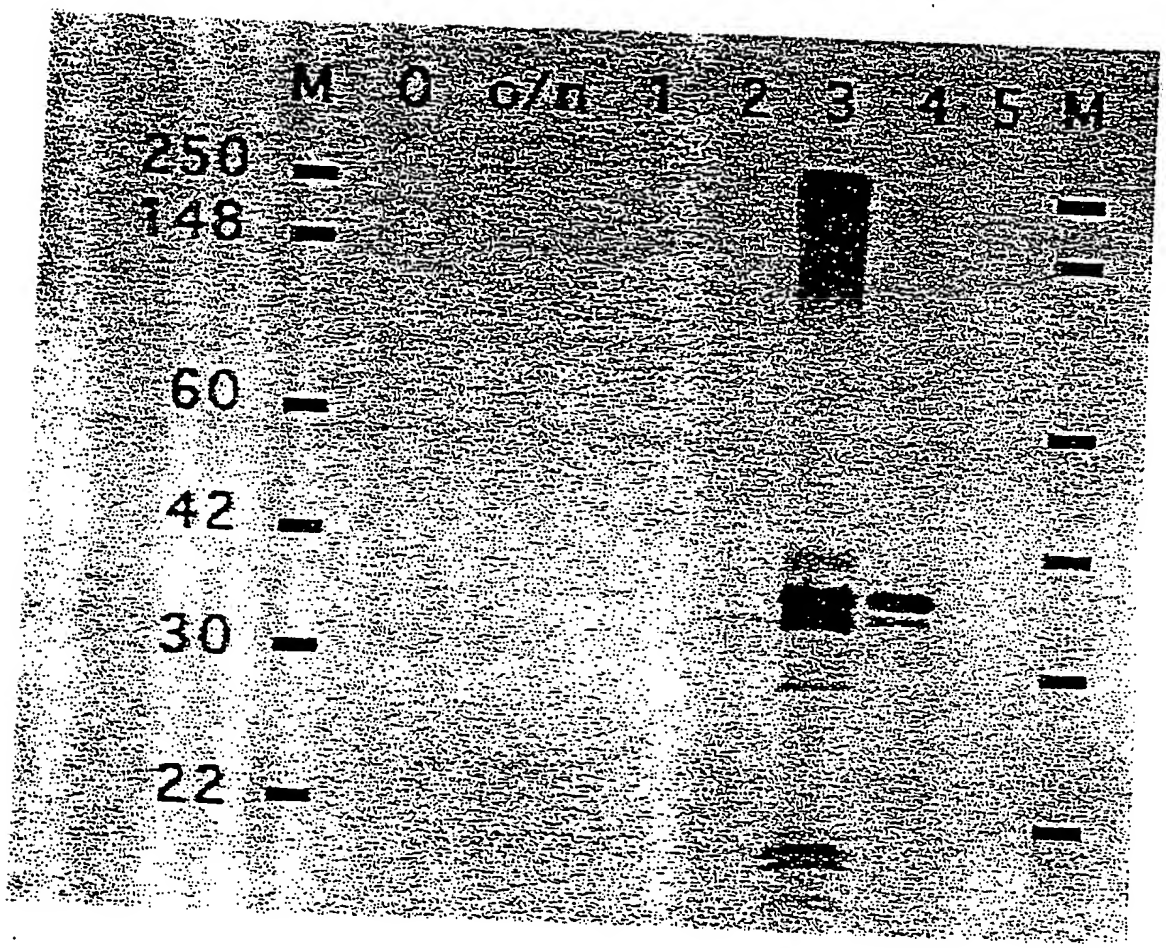

Figure 3

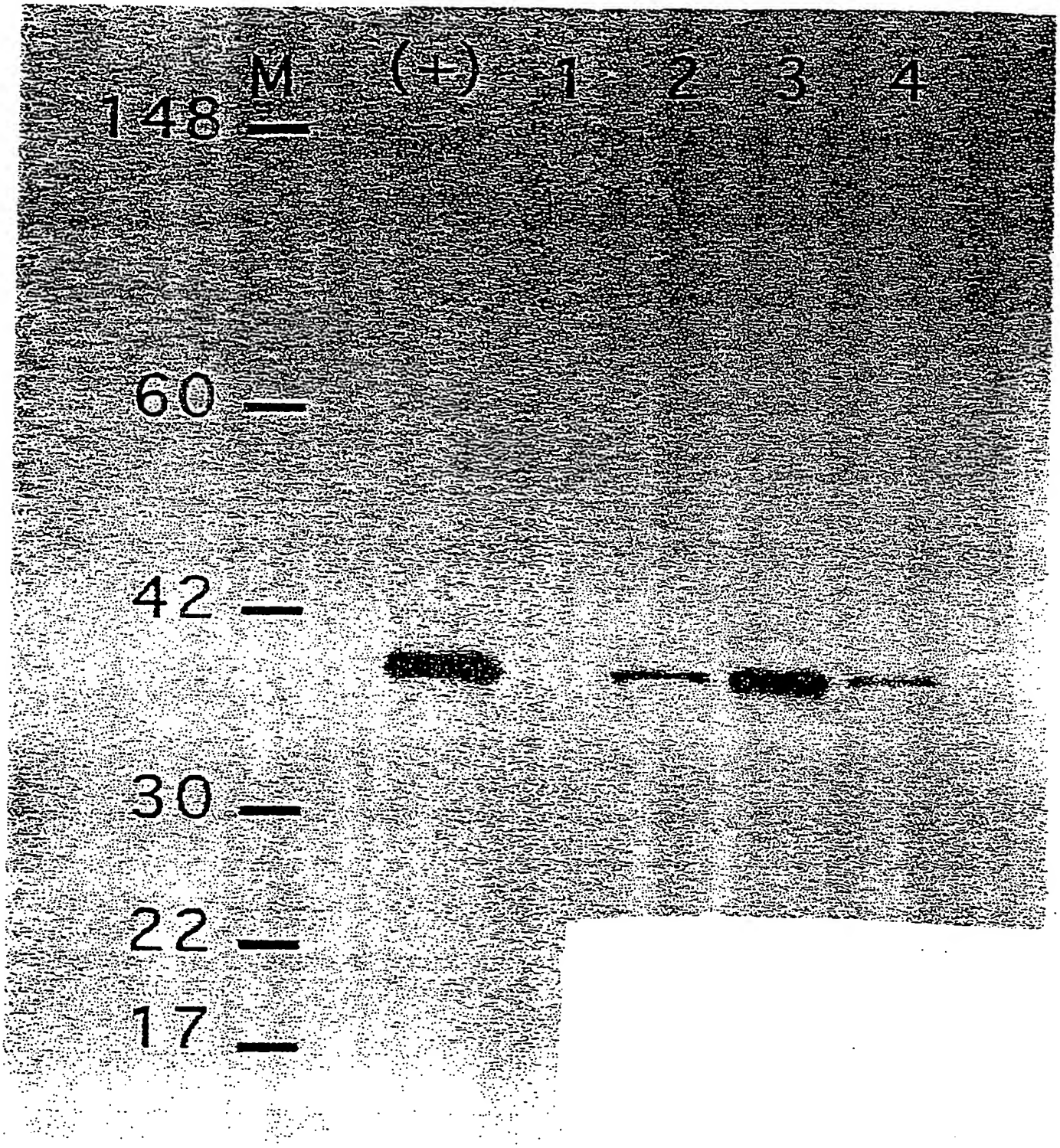

Figure 4

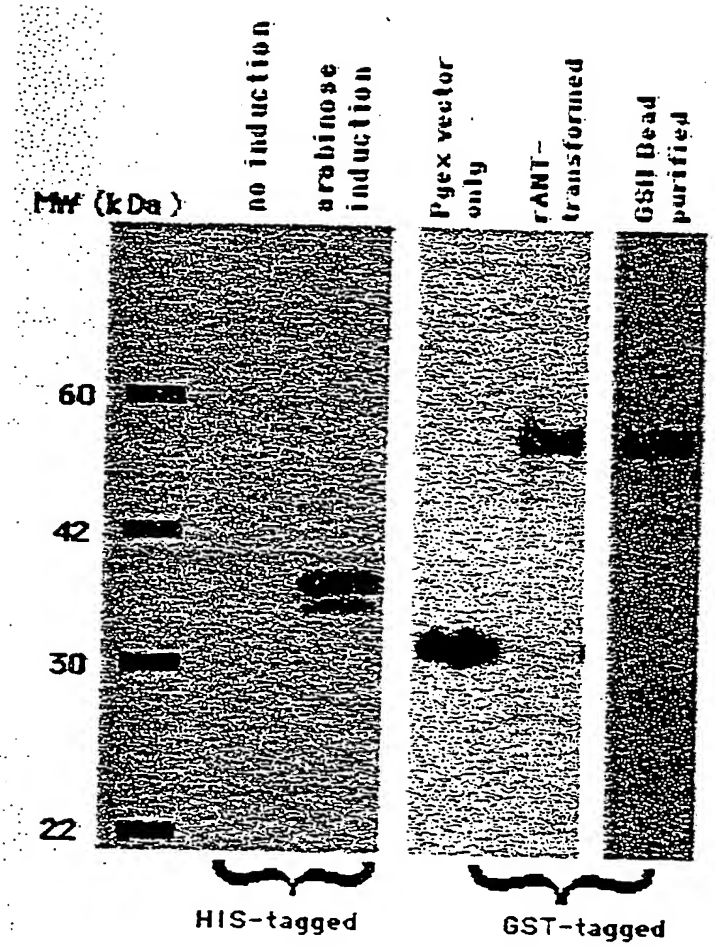
Mw (kDa)
no induction
arabinose induction
Pyex vector only
rANT-transformed
GSH Bead purified
60
42
30
22
HIS-tagged
GST-tagged

Figure 5

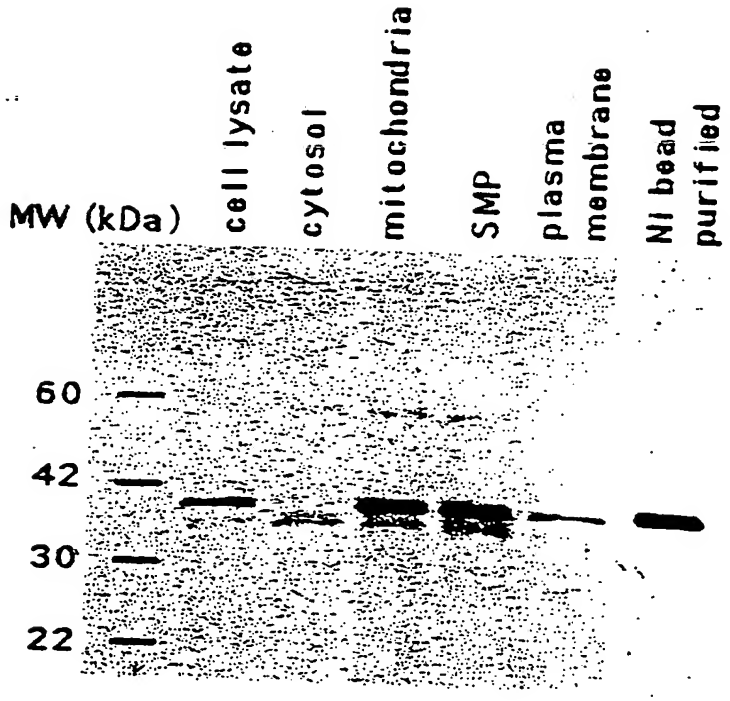
MW (kDa)
cell lysate
cytosol
mitochondria
SMP
plasma membrane
Ni bead purified
60
42
30
22

Figure 6

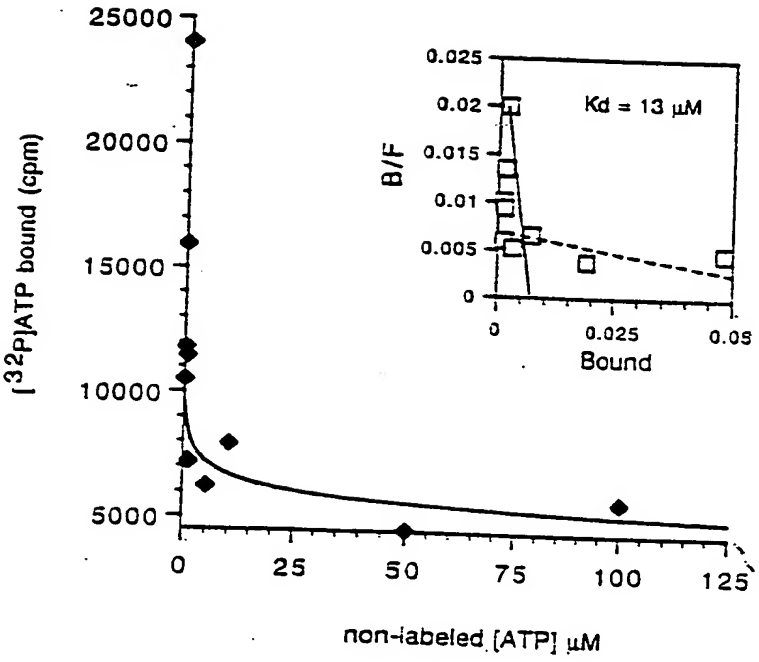
25000
20000
15000
10000
5000
[32P]ATP bound (cpm)
0
25
50
75
100
125
non-labeled [ATP] µM
0.025
0.02
0.015
0.01
0.005
0
B/F
Kd = 13 µM
0
0.025
0.05
Bound

Figure 7

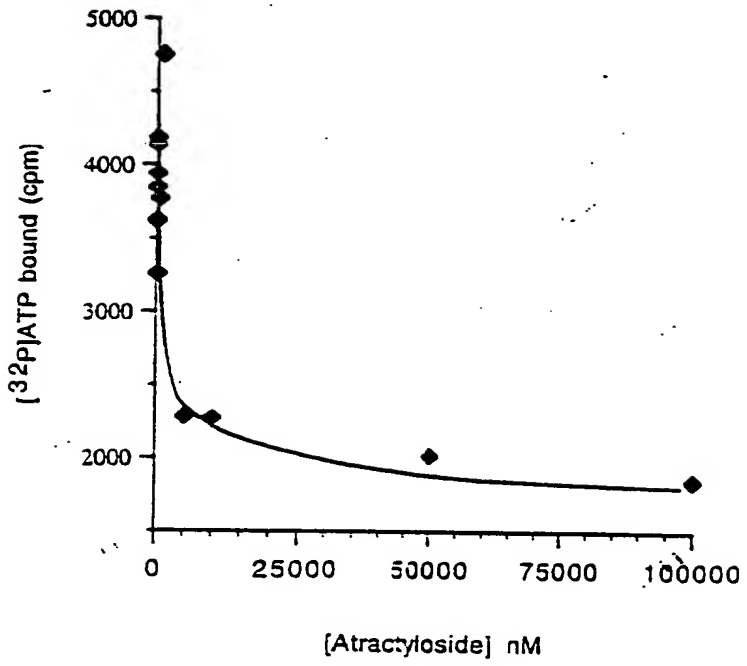
5000
4000
3000
2000
[32P]ATP bound (cpm)
0
25000
50000
75000
100000
[Atractyloside] nM

Figure 8

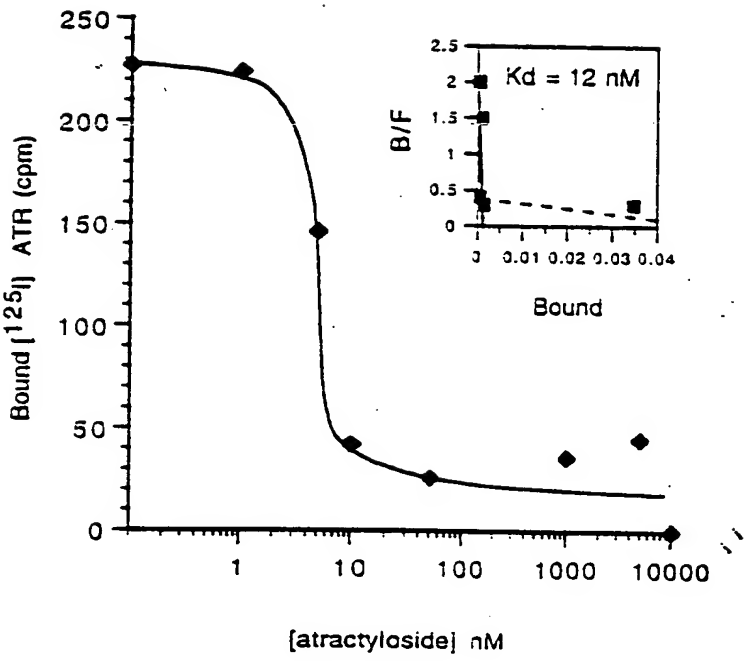
250
200
150
100
50
0
Bound [125I] ATR (cpm)
1
10
100
1000
10000
[atractyloside] nM
2.5
2
1.5
1
0.5
0
B/F
Kd = 12 nM
0 0.01 0.02 0.03 0.04
Bound

Figure 9

Figure 10

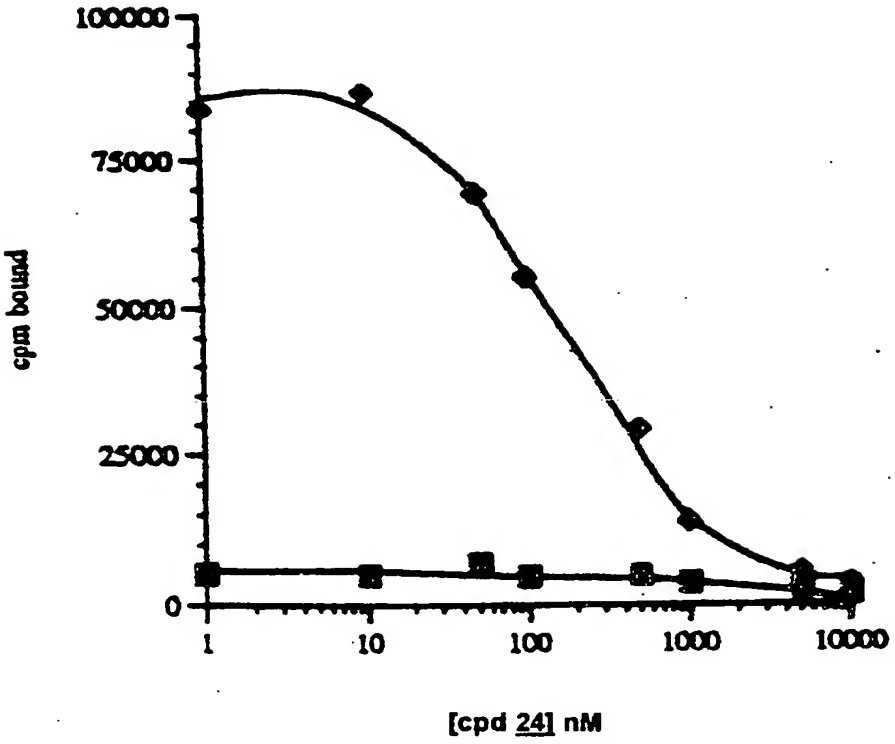
100000
75000
50000
25000
0
cpm bound
1
10
100
1000
10000
[cpd 24] nM

Figure 11

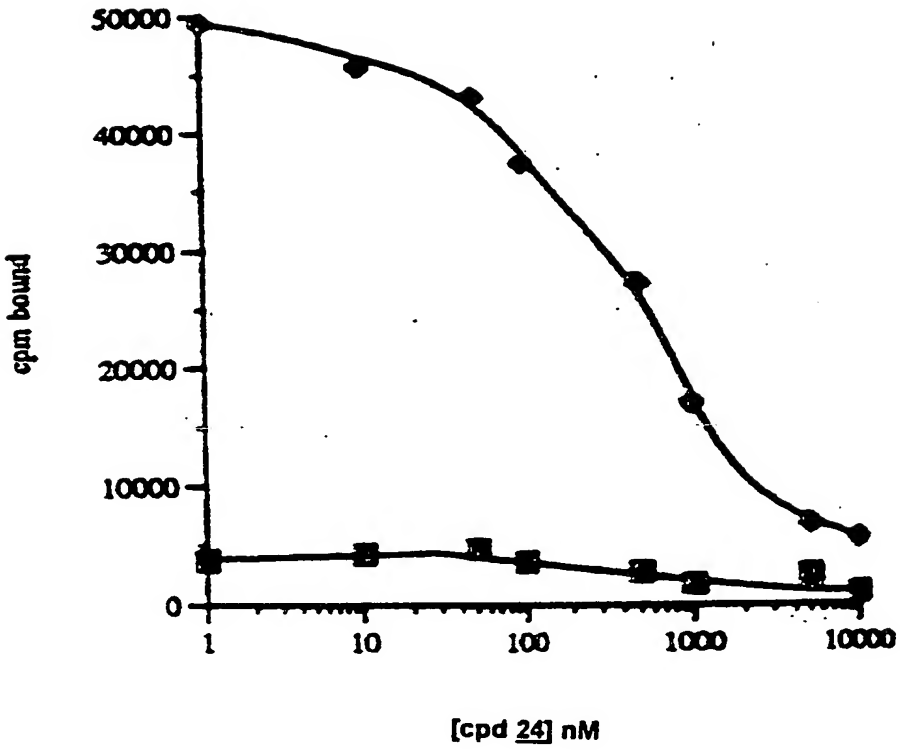
50000
40000
30000
20000
10000
0
cpm bound
1
10
100
1000
10000
[cpd 24] nM

Figure 12

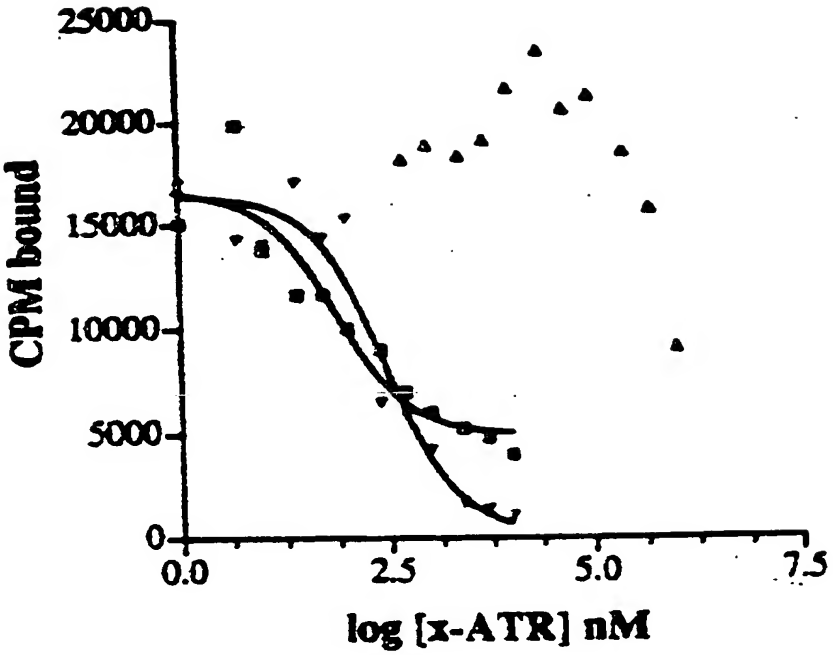
25000
20000
15000
10000
5000
0
CPM bound
0.0
2.5
5.0
7.5
log [x-ATR] nM
[cpd 24] nM

Figure 13

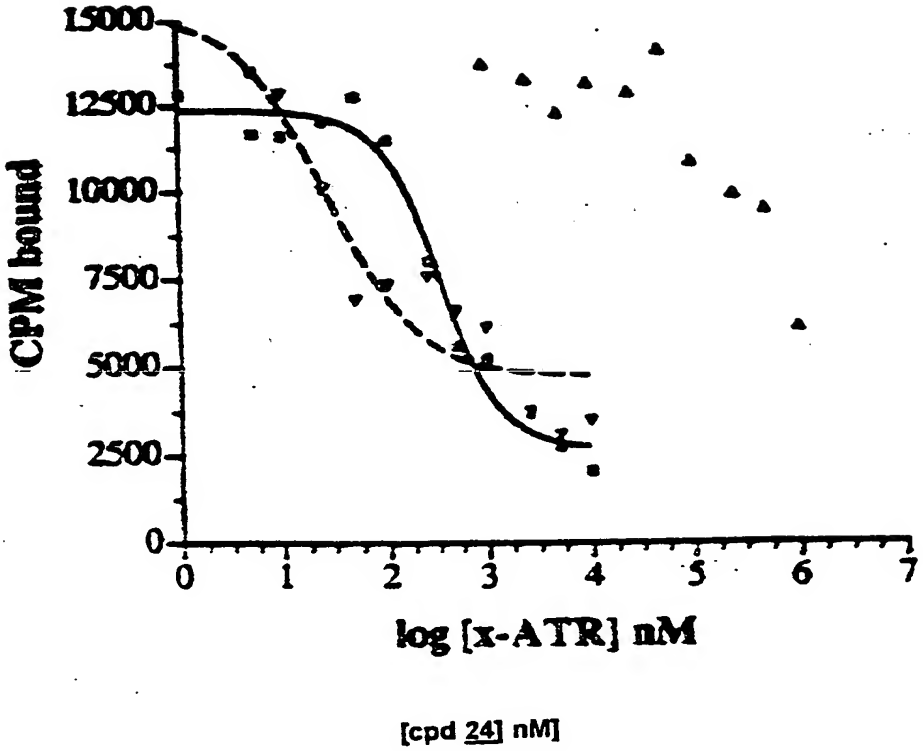
15000
12500
10000
7500
5000
2500
0
CPM bound
0
1
2
3
4
5
6
7
log [x-ATR] nM
[cpd 24] nM]

Figure 14

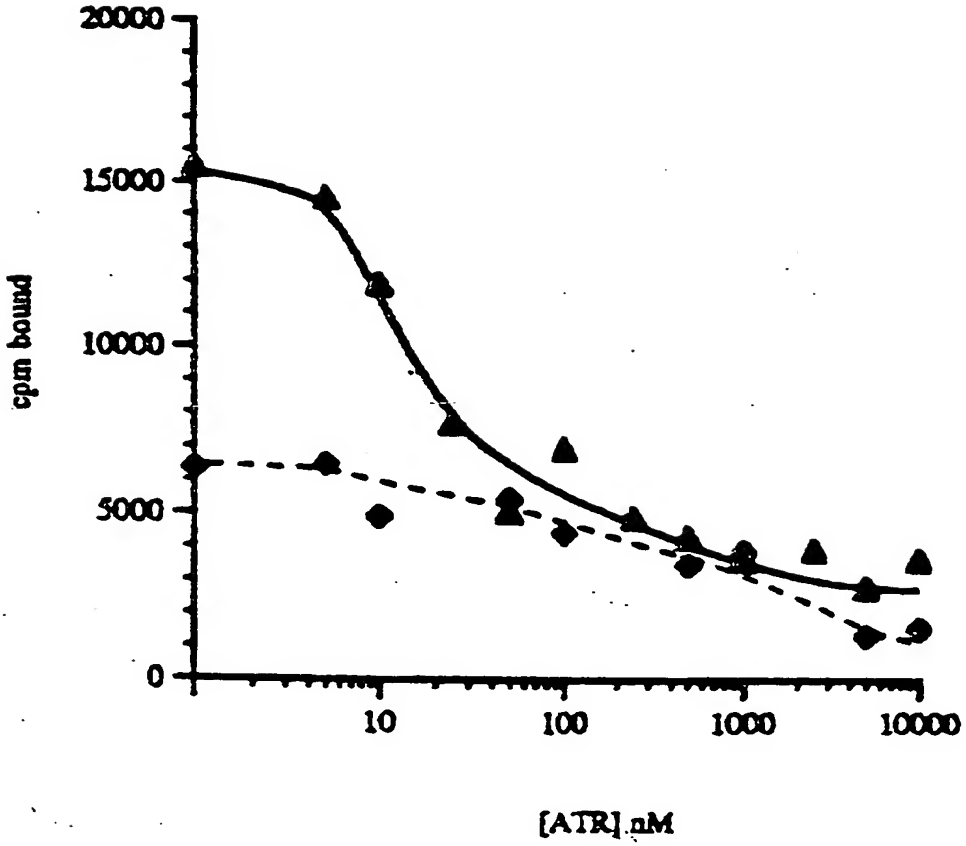

Figure 15

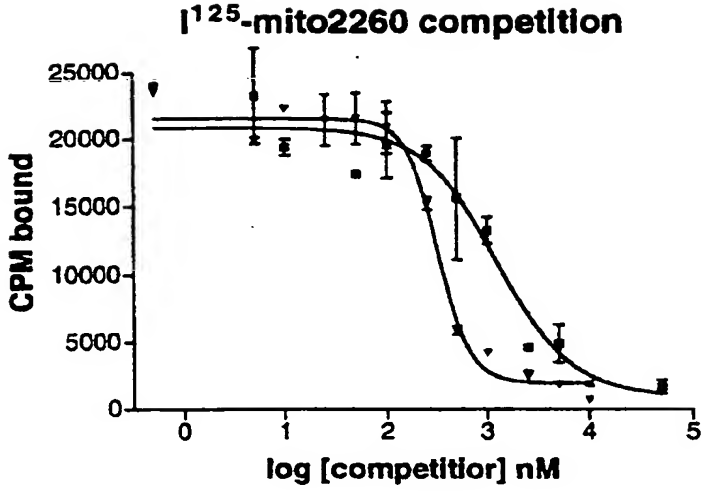
I125-mito2260 competition
CPM bound
25000
20000
15000
10000
5000
0
0
1
2
3
4
5
log [competitior] nM

Figure 16

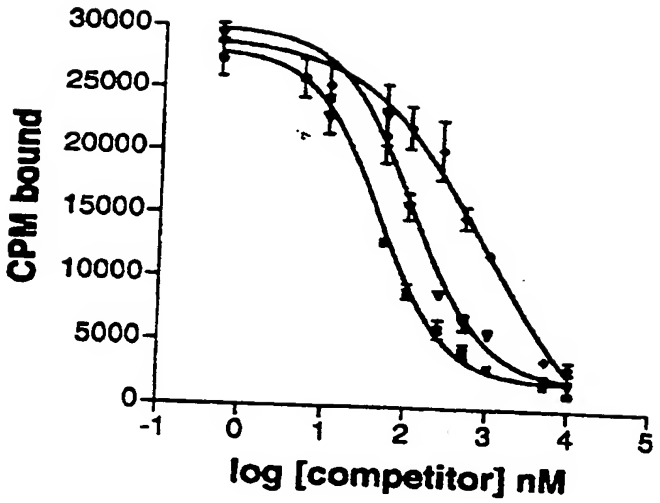
30000
25000
20000
15000
10000
5000
0
CPM bound
-1
0
1
2
3
4
5
log [competitor] nM

Figure 17

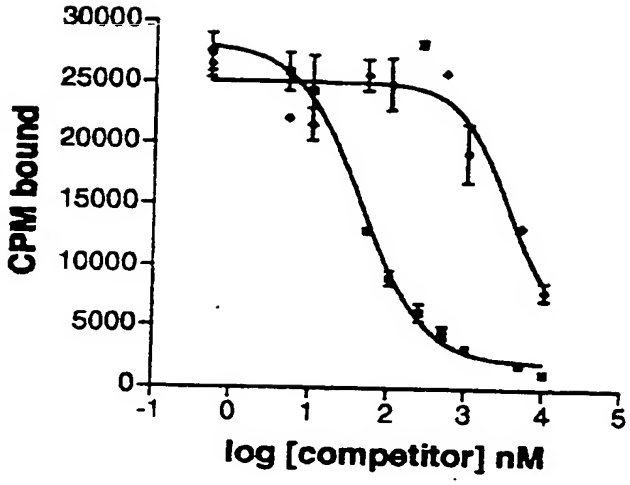
30000
25000
20000
15000
10000
5000
0
CPM bound
-1
0
1
2
3
4
5
log [competitor] nM

Figure 18

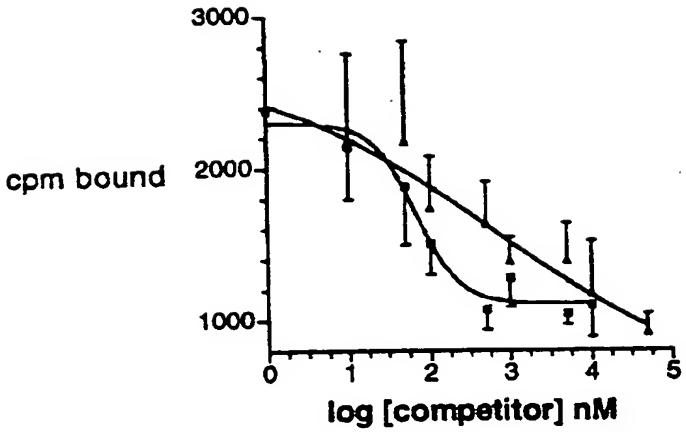

Figure 19